

# High Pressure Diaphragm Seals

Male Thread • Model 990.36  
Male Running Nut • Model 990.37

## Chemical Seals

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### Service intended

Chemical seal to combine with high pressure bourdon tube pressure gauges or transmitters.  
Suitable for corrosive, contaminated, hot or viscous pressure media in chemical- and food-industries.

### Design

Body with flush diaphragm

### Process connection

Male pipe thread  
Male running nut

### Pressure rating

PN 600

### Suitable pressure ranges

Model 990.36: 10 bar to 600 bar  
Model 990.37: 100 bar to 600 bar

### Standard features

#### Body (process connection)

Stainless steel 1.4571

Model 990.36: Male pipe thread  
Model 990.37: Male running nut  
Feasible sizes see table overleaf

#### Diaphragm

Stainless steel 1.4571, welded with body

#### Instrument connection

Stainless steel 1.4571  
Model 990.36: G ¼, G ½ female per DIN 16 288 form Z  
Model 990.37: G ¼ female per DIN 16 288 form Z



Model 990.36

### Optional extras

#### Body (process connection)

Special materials (solid metal only) available upon inquiry

Model 990.36: G ½ A, G ¾ A, G 1 A, G 1 ½ A, same sizes NPT  
Model 990.37: G ¾ A, G 1 A, parallel thread only

#### Diaphragm

Special materials same as body

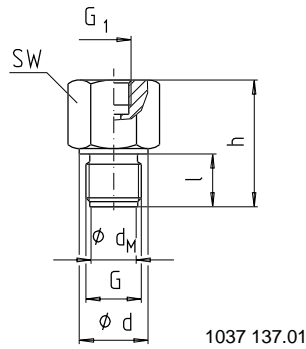
#### Instrument connection

Model 990.36: G ½ female, ¼ or ½ NPT female  
Model 990.37: G ½ female, ¼ or ½ NPT female  
Cooling tower for directly mounted gauge when temperature of pressure media > 100 °C  
Capillary extension welded with body and glauge adaptor  
G ½ female to fit surface mounting bracket

## Dimensions

### Standard version

Model 990.36  
male thread with flush diaphragm

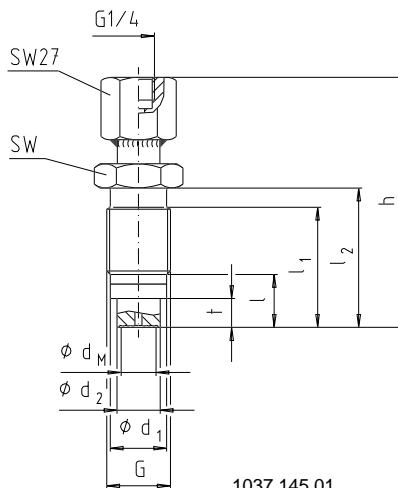


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G	PN [bar]	Dimensions [mm]					
		d <sub>M</sub>	G <sub>1</sub>	SW	d	l	h
G ½ A	600	17	G ¼	30	26	20	48
G ¾ A	600	22	G ¼	32	32	20	45
G 1 A	600	25	G ½	41	39	28	64
G 1½ A	600	40	G ½	55	60	30	50

Effective diameter of diaphragm = d<sub>M</sub>

Model 990.37  
with male running nut



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G	PN [bar]	Dimensions [mm]								
		d <sub>M</sub>	d <sub>1</sub>	d <sub>2</sub>	h	SW	t	l	l <sub>1</sub>	l <sub>2</sub>
G ¾ A	600	17	23.5	18	104	32	12	22	50	58
G 1 A	600	22	29.5	23.5	181	41	25	34	75.5	111

Effective diameter of diaphragm = d<sub>M</sub>

## Ordering information

Specify:

Model / Size of connection / Material of wetted parts / Size of instrument connection /  
Filling liquid / Pressure instrument desired (preferably 63 mm) / Process conditions as per questionnaire / Optional extras required

Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing.  
Modifications may take place and materials specified may be replaced by others without prior notice.



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